Abstract

The force exerted on an injector valve (4, 5), by the piezo-actuator (3) on a main injection, is determined by means of a non-linear actuator model (8) and thus the gradient (-dFHdt) of the drop-off in force after the force maximum (FHmax) and a threshold value (G) are derived, with which a gradient (-dFV/dt) determined for the pre- or post-injection is compared and, depending on the result of the comparison, the signal parameter (p) for the subsequent pre- or post-injection(s) is corrected.